VICON

NOTES	SPEC NO.	REV.	SEC.
SUPERSEDES PRODUCT SPECIFICATION 871-795	871	499	11

PRODUCT SPECIFICATION

MODEL: V1311RB

PRODUCT CODE: REFER TO TABLE 1

DESCRIPTION: UNIVERSAL RECEIVER

- **Compatible with NOVA V1200, V1300, V1344 and V1422, Vicoax and Modupulse**
- **Compact**
- **Weatherproof**
- **Selectable communication rate**
- **Local diagnostics**
- **Choice of simplex or duplex communication with NOVA CPUs**

CE

V1311RB UNIVERSAL RECEIVER

The V1311RB Universal Receiver is a compact unit that operates under the control of a number of the control transmitters. The V1311RB is used with a plug-in communications interface board to specify which control system is used (NOVA™, Vicoax® or Modupulse®). Refer to Table 1.

Standard receiver functions include pan-and-tilt operation, autopan, zoom lens drive, focus and iris operation, autoiris control, one alarm input, one auxiliary function which can be set for latching or momentary operation and local diagnostics. The local diagnostics functions test pan, tilt, autopan, zoom, focus, iris, and auxiliary operation. The NOVA interface offers preset position operation including memory for 90 presets and a selectable communications baud rate of 600 or 4800 baud. The Vicoax interface offers memory for four preset positions for use with V1902VCT transmitters. Preset operation is not available with the V1119VCT Vicoax transmitter nor the V1770C Modupulse transmitter.

The communications interface board used with NOVA (VPS®) systems (V1311R-VPS-1) offers a choice of simplex or duplex communication with the NOVA control system. Simplex communication requires a single shielded twisted-pair cable between the NOVA control system and receiver, while duplex communication requires two individually-shielded twisted pairs. The simplex communication option allows a savings in cable costs. If the system operator wants to have receiver alarm inputs and communications failures displayed on the LED readout on the control keypad, duplex operation is nec-

CONTRACTORS' SPECIFICATION

Standard receiver functions shall include pan-and-tilt operation, autopan, zoom lens drive, focus and iris operation, and autoiris control. The receiver shall have one alarm input and one auxiliary function which can be set for momentary or latching operation. The RS-422 interface shall offer preset position operation including memory for 90 presets and shall feature a selectable communications baud rate of 600 or 4800 baud. The TTL interface shall offer memory for four preset positions. The receiver shall offer local diagnostics functions which will test pan, tilt, autopan, zoom, focus, iris, and auxiliary operation.

The receiver shall be compatible with various control transmitters and CPUs. The receiver shall offer a choice of three plug-in communications interface boards to specify which control system is used. With the appropriate interface board, the receiver shall be compatible with RS-422, RS-232, and TTL communications. The interface board used with RS-422 systems shall offer a choice of simplex or duplex communication with the CPU.

The receiver shall be available in three operating voltages: 24 VAC, 120 VAC, and 230 VAC. The output voltage to the pan-and-tilt shall be 24 VAC, 120 VAC, or 230 VAC and maximum power consumption for the receiver shall not exceed 50 W. The receiver shall be available in a weatherproof metal housing and shall be supplied with a heater and thermostat as standard. The receiver shall comply with the requirements for an FCC Class A classification and NEMA 4 standard environmental capabilities.

The receiver shall be a compact unit. Maximum dimensions shall not exceed 10.62 in. (27.0 cm) length, 7.55 in. (19.2 cm) width, 4.20 in. (10.7 cm) height. The weight of the unit shall not exceed 9.9 lb (4.5 kg).

The receiver shall be Vicon's model V1311RB Series Universal Receiver.

Vicon part number 8006-7871-01-00

VICON INDUSTRIES INC. 89 ARKAY DRIVE, HAUPPAUGE, N.Y. 11788 ❖ **TEL:** 516-952-CCTV *(2288)* ❖ **FAX:** 516-951-CCTV *(2288)*
TOLL FREE: 1-800-645-9116 ❖ **UK:** 44/(0)1489/566300 ❖ **INFOFAX:** 1-800-287-1207 ❖ **WORLD WIDE WEB:** www.vicon-cctv.com

essary and dual shielded twisted-pair cable is required.

The Universal Receiver is encased in a weatherproof metal housing, with a heater and thermostat as standard. This housing meets NEMA 4 environmental capabilities. The V1311RB receiver is available in several versions, with several different input voltages. The pan-and-tilt drive voltage is selectable. Refer to Table 1.

These units comply with FCC requirements for a Class A digital device.

TABLE 1
V1311RB MODELS AND INTERFACE BOARDS

RECEIVERS			
MODEL NUMBER	**PRODUCT CODE**	**INPUT VOLTAGE (VAC)**	**OUTPUT VOLTAGE (VAC)**
V1311RB-1WA	6153	24	24
V1311RB-2WA	6154	120	24 or 120
V1311RB-3WA	6155	230	24 or 230
COMMUNICATIONS INTERFACE BOARDS			
MODEL NUMBER	**PRODUCT CODE**	**CPU/TRANSMITTER**	
V1311R-VPS-1	4789	NOVA: V1200, V1300, V1344, V1422	
V1311R-VI-1	4790	Vicoax: V1901VCT, V1902VCT, V1119VCT, V1422	
V1311R-MI-1	4791	Modupulse: V1770C	

TECHNICAL INFORMATION

ELECTRICAL

Input Voltage: V1311RB-1W: 24 VAC.
V1311RB-2W: 120 VAC.
V1311RB-3W: 230 VAC.

Output Power: 80 VA max.

Fuses: F1: 1.0 A, 2AG, slo-blo.
F2: 2.5 A, 2AG, slo-blo.
F3: 2.5 A, 2AG, slo-blo.

Power Consumption: 50 W. (Associated equipment, such as pan-and-tilt and auxiliary devices, are not included in power ratings.)

Heat Equivalent: 0.91 btu/min (0.23 cal/min).
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Video Input/Output: Passive loop-through UHF-type connectors.

Receiver Control Input: V1311R-VPS-1: RS-422 communications interface board for NOVA systems, plugs into receiver main board. Terminal block on interface board accessible through cable entry fitting on housing for communication to and from CPU and next receiver in line. Two leads differential RS-422 command. Two leads differential RS-422 response. Two leads shield grounds. Up to five miles distance between receivers when using Belden No. 9182 shielded twisted-pair wires or equivalent. Baud rate selectable from DIP switch on receiver main board 600 or 4800 baud.

V1311R-VI-1: TTL communications interface board for Vicoax systems, plugs into receiver main board. Two-pin connector routes control signals from the Vicoax transmitter to the interface board via UHF connector on receiver rear panel.

V1311R-MI-1: RS-232 communications interface board for Modupulse systems, plugs into receiver main board. Terminal block on interface board accessible through cable entry fitting on housing for communication to and from Modupulse transmitter.

Auxiliary Function: Terminal block on main board accessible through cable entry fitting on housing. One lead normally open. Switch-selectable for momentary or latching operation.

Local Alarm Input: Terminal block on V1311R-VPS-1 or V1311R-VI-1 interface boards accessible through cable entry fitting on housing.

Pan-and-Tilt Drive Output: Terminal block on main board accessible through cable entry fitting on housing for P/T drive.
Voltage: Refer to Table 1.

Lens Drive Output: Terminal block on main board accessible through cable entry fitting on housing for lens drive.
Voltage: 4 to 9 VDC.

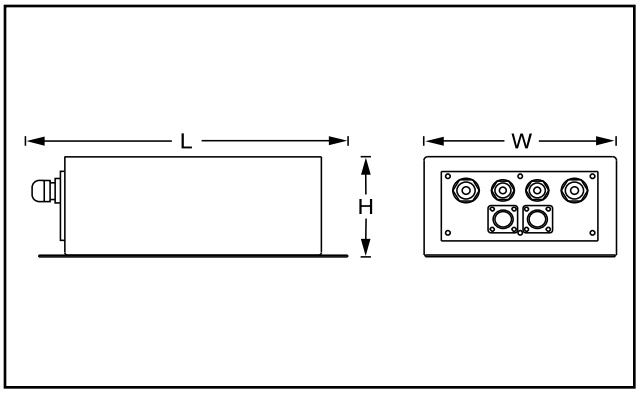
Autoiris Lens Control:	Receiver-based autoiris control. Autoiris level potentiometer on interface board. Lens response compensation switch on interface board; further compensation provided for smaller lenses using shunt switch on main board.
Radio Frequency Emission Rating:	FCC Class A.
European Community (CE) Standards:	EN50081-1 generic emissions EN50082-1 generic immunity.

OPERATIONAL

Basic Functions:	Pan left and right, fixed speed. Tilt up and down, fixed speed. Autopan operation for P/T units with autopan capability. Zoom in/out, dual speed. Focus near/far, dual speed. Iris open/close, dual speed. Autoiris control for motorized zoom lenses, remotely selectable. One dry-contact auxiliary function, switch-selectable for momentary or latching operation. Memory capacity for 90 presets (NOVA) or 4 presets (Vicoax). Switch-selectable 600 or 4800 baud communication rate (NOVA).
Diagnostic Tests:	Pan right and left. Tilt up and down. Autopan. Zoom in and out. Focus near and far. Iris open and close. Auxiliary function.

MECHANICAL

Dimensions:	See Figure. Length (L): 10.62 in. (27.0 cm). Width (W): 7.55 in. (19.2 cm). Height (H): 4.2 in. (10.7 cm).
Weight:	9.9 lb (4.5 kg).
Construction:	Steel.



Finish:	Light gray paint.
Mounting:	Four 5/16 mounting holes.
Shipping Dimensions:	Length: 13.5 in. (34.3 cm). Width: 10.25 in. (26 cm). Height: 8.5 in. (21.6 cm).
Shipping Weight:	11.2 lb (5.1 kg).
Shipping Volume:	0.7 ft^3 (0.2 m^3).

ENVIRONMENTAL

Ambient Temperature Range:	-30 to 140° F (-34 to 60° C) (Heater is standard).
Storage Temperature Range:	-20 to 140° F (-29 to 60° C).
Storage Humidity:	Up t 85% relative, noncondensing.
NEMA Standard:	4*.
European Community (CE) Standard:	IP65*.

**Based on engineering evaluation and test. Not tested independently.*